

## CLAIM AMENDMENTS

1           1. (original) A cutter (1) of a rotary pump for liquids  
2 containing solid materials, the cutter having a rotating blade (2)  
3 having at least one opening (5) through which the liquid flows that  
4 forms a cutting edge and the blade is directed with one end face  
5 (8) toward a nonrotating counter surface (9) that also has at least  
6 one opening (12) through which the liquid flows, characterized in  
7 that the end face (8) of the blade (2) that directed toward the  
8 counter surface (9) is convex, whereas the counter surface (9) is  
9 complementarily concave.

1           2. (original) The cutter according to claim 1,  
2 characterized in that the curvature of the blade (2) forms a  
3 spherical cap (dome).

1           3. (original) The cutter according to claim 2,  
2 characterized in that an end of a radius (R) of the spherical cap  
3 is situated on an axis of the pump shaft at the same level as a  
4 shaft bearing that is near the pump impeller.

1           4. (original) The cutter according to ~~one of the~~  
2 ~~preceding claims~~ claim 1 , characterized in that the rotating blade  
3 (2) is attached to the pump impeller at an end that is directed  
4 away from the counter surface (9).

1           5. (original) The cutter according to ~~one of the~~  
2 ~~preceding claims~~ claim 1, characterized in that the counter surface  
3 (9) is formed by a nonrotating element (10) that can be fixed in or  
4 on the pump housing or that is formed by the pump housing.

1           6. (original) The cutter according to ~~one of the~~  
2 ~~preceding claims~~ claim 1, characterized in that the flow-through  
3 openings (12) narrow in a flow direction and thus flare in a  
4 downstream direction.

1           7. (original) The cutter according to claim 5 [[or 6]],  
2 characterized in that the nonrotating element (10) is mounted in an  
3 annular flange (11) that can be attached in or on the pump housing.

1           8. (original) The cutter according to ~~one of the~~  
2 ~~preceding claims~~ claim 1, characterized in that the rotating blade  
3 (2) has two to four, preferably three sector-shaped openings (5).

1           9. (original) The cutter according to ~~one of the~~  
2 ~~preceding claims~~ claim 1, characterized in that the nonrotating  
3 element (10) has four to six, preferably five sector-shaped  
4 openings (12).

1           10. (original) The cutter according to ~~one of the~~  
2 ~~preceding claims~~ claim 1, characterized in that the cutting edges  
3 (7) of the in particular radial webs (6) are formed or supported  
4 between the openings (5) of the cutter (2).

1           11. (original) The cutter according to ~~one of the~~  
2 ~~preceding claims~~ claim 1, characterized in that it has an inlet tip  
3 (13) between the sector-shaped openings (12) of the nonrotating  
4 element.

1           12. (original) The cutter according to ~~one of the~~  
2 ~~preceding claims~~ claim 1, characterized in that the rotating blade  
3 (2) has the function of a further axial impeller due to the design  
4 of the intake ports 5 that extend at an angle relative to the  
5 rotational direction.